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GROSS 3727

STORAGE CAGE FOR GARBAGE

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Application number: JP19960283078 19961005

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Abstract of JP10109703

PROBLEM TO BE SOLVED: To facilitate replacement of a core rib by forming a core rib bag body to/from which the core frame can be inserted/removed. **SOLUTION:** A core rib 2 is made of a PRP pole and the like provided with high flexibility and highly deformability. A cage is formed by binding the end parts of a core rib bag body 3 together by machine sewing. As the connecting parts in the cage need flexibility for providing the foldable cage, the length of the core rib 2 is shortened as against that of the core rib bag body 3. The cage is formed by arranging the core rib bag body 3 without inserting any core rib 2 into any side face ridge part 12 and sewing and fixing a mesh body 1 to the core rib bag body 3. When the core ribs 2 are inserted into upper face opening ridge parts 11 and into the side face ridge parts 12, the respective ridge parts are stretched and stand by themselves so as to form a box shape. On the other hand, in this cage, respective corner parts 8 are flexibly connected to each other, so that the cage can be flattened when the respective ridge parts are folded up even if the core ribs 2 are inserted, so that it is convenient for storage.

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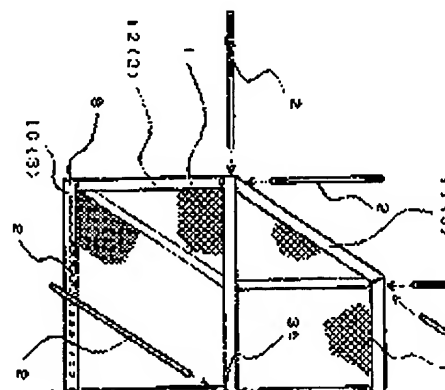
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(54) 【発明の名称】 塵芥等の収納ケージ

(57) 【要約】

【課題】 本発明は、塵芥類等を収納する収納ケージであって、使用しないときには折りたたみ可能とするものである。

【解決手段】 本発明のケージは、側面と底面を網体1等で形成すると共に上開口を有し、上開口縁部11と側面縁部12を芯骨2を挿入の芯骨袋体3で形成し、芯骨袋体3を芯骨2の挿入と抜き出しを可能に形成するものであり、ケージは芯骨2を装着しない状態で形成できる。



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46 【0006】又 前記添冊2は、FRP:

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口縁部11と側面縁部12は芯骨2を挿入しない状態で製作する。そして、前記工程の後のケージは、上面開口縁部11と側面縁部12に芯骨2を挿入すると、各縁部は張設状態となって自立して箱状になる。一方、このケージは、前記芯骨2を挿入した状態であっても、各隅部8が柔軟に結合してあるため、各縁部を折り曲げることによって平坦状になって保管が便利である。又、このケージは、芯骨2を抜くことによって平坦状にすることができる。

【0008】以上のように、各縁部に取付けの芯骨袋体3は、芯骨2の挿入と抜き出しを可能に形成してあるため、芯骨2を挿入しない柔軟な状態でケージを作成することができるため、ミシン縫いが容易である。又、ケージとして使用しているときに、芯骨2を折損した時であっても、新たな芯骨2に取り替えが容易である。

【0009】（第2の実施の形態）本実施の形態のケージを図2に示し、第1の実施の形態とは、側面縁部12に弾性袋体20を介して製作する点を異にする。即ち、ケージは、上開口縁部11と底面縁部10との間に、側面縁部12の際に弾性袋体20を取付けて、側面を網体20で縫合固定する。この弾性袋体20は、ポリエチレン等の合成樹脂シートで製作し、端部をミシン縫いで閉鎖部20aを形成し、他端部を開口部20bを形成し、鈎21aとその鈎止21bを介して固定可能なファスナで開閉可能として、弾性体25の取り替えを可能とする。又、前記弾性袋体20に挿入、抜き出しする弾性体25は、コイルスプリング等、種々の形状のものを使用できるが、S字平坦型を用いる方が、側面を平坦に立設できて望ましい。

【0010】この弾性袋体20は、上面開口縁部11の相対する側面で最も離反位置に取り付けることによって、上面開口縁部11と底面縁部10は反力を得て側面が立設可能となる。従って、この弾性袋体20は、弾性体25の強度を考慮して、2箇所ではなく、各側面にも取り付けることであってもよい。尚、この弾性体25は弾性袋体20を介さず、直接、上面開口縁部11と底面縁部10に装脱若可能に取り付けてもよいが、見た目の美観を奏するためには弾性袋体20に挿入する方式が望ましい。

【0011】前記ケージは、上面開口縁部11に芯骨袋

付けることなく、ケージを作成しておき、称等の布を側面に縫いつけて出荷すること

【0012】又、芯骨2と弾性体25を弾性体25によって側面が立設の箱状とな柔軟に結合してあるために、折り畳むことが状態にすることができる。即ち、芯骨2を挿入した状態のケージであっても、使用時の弾発力を介して側面が立設して箱状となるときには、前記芯骨2と弾性体25を抜く、そのまま折り畳んで平面状にするこ

【0013】又、このケージは、塵芥等積み重ねてトラック等で搬送する。このケージが満杯であるときには、その塵芥で上を支持するので問題がないが、少ないと5にその重畳がかかる。しかし、この弾性が高いためよく曲がって、弾性袋体3を弾性体25が折損したりすることがない。即ち、従来のケージは、芯骨2で側成しているの、その芯骨2の剛性が少2の曲折が少なく折損するか、芯骨袋ことが生ずるが、弾性体25、特に、S体を使用することによってかかる不都合

【0014】尚、弾性袋体のファスナ2側10に取り付けてあるため、ケージを抜き、弾性体25は下方向に荷重がかかることなく維持でき、弾性体25が弾性袋体ずことがない利点があるが、上面開口縁でもよい。又、底面及び側面には、編み張設してあるが、塵芥の種類に応じて柔軟構成して、細かい塵に対処可能としても、上開口縁部11と底面縁部10には、413を介して形成してあるが、重畳物を入々の使用目的に合わせて強度を考慮して、芯骨袋体3の設置位置は実施の形態時には補強のために側面や底面の中央部構成してもよい。

【0015】

【発明の効果】本発明の請求項1のケ入と取出しを可能に芯骨袋体を形成して、の取り替え容易にする。又、請求項2の

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【図面の簡単な説明】

【図1】第1の実施の形態の形態のケーシングを示す斜視図である。

【図2】第2の実施の形態の形態のケーシングの斜視図である。

【符号の説明】

1 網体

2 芯骨

3 芯骨袋体

3a 閉鎖部

* 3b 開放口

8 隅部

10 底面稜部

11 上面開口稜部

12 側面稜部

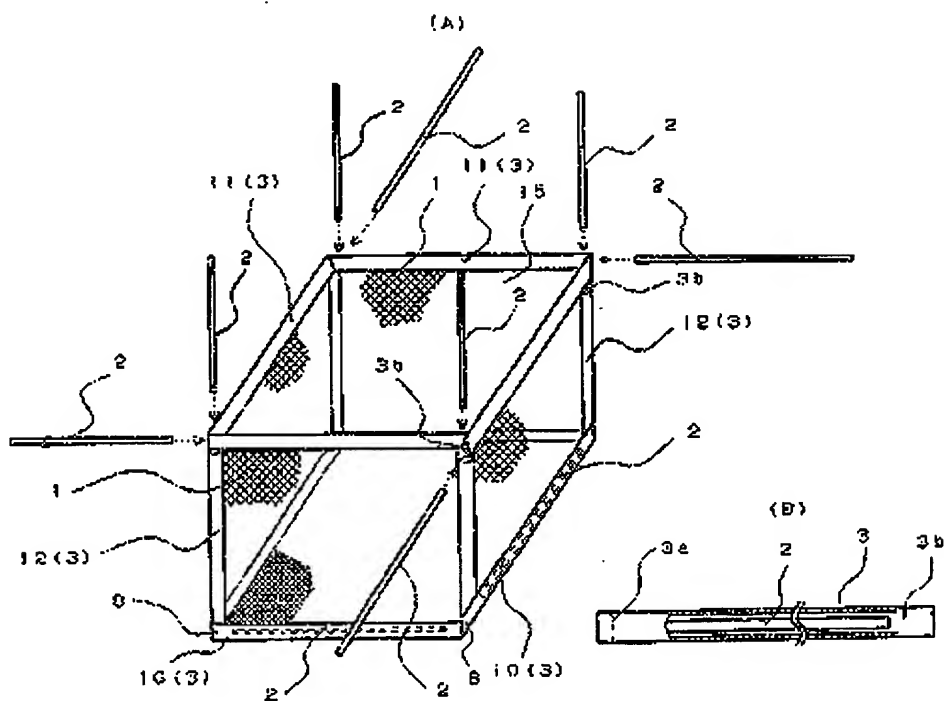
20 弾性袋体

20b 開口部

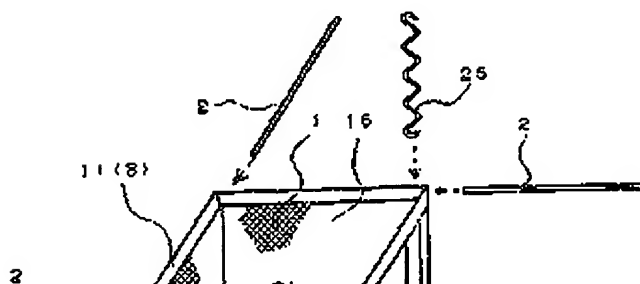
25 弾性体

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【図1】



【図2】



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the receipt cage which contains dust and in which chip box **** is possible.

[0002]

[Description of the Prior Art] Conventionally, there are mesh-like cages, such as JP,05-42202,U, as a receipt equipment used for a weeding-out activity or cleaning. It can carry out independence opening of the upper opening at the time of use, and when not using it, it enables it for especially this mesh-like cage to combine the base formed with the heavy-gage mesh-like Plastic solid which has flexibility, and the side face formed by the network-like organizer which consists of a network or a mesh-like nonwoven fabric, and to have folded it up simply.

[0003]

[Problem(s) to be Solved by the Invention] If dust etc. is accumulated on the conventional mesh-like cage in the condition which is not full, the central frame of the central frame bag body of installation will bend to the side-face arris part of the mesh-like cage located downward, and, occasionally it will project or break from a central frame bag body in it. That is, since the mesh-like cage is not full, the central frame of a side-face arris part will bend and break with the weight of an upper mesh-like cage, or a central frame bag body will be broken through. Moreover, to the central frame bag body, carrying out sequential insertion, one by one, the network or the mesh-like nonwoven fabric was sewn on the side face, and the conventional cage is assembling the central frame. Therefore, the assembled cage can be folded up through a side-face arris part, and serves as box-like at the time of use. However, since a central frame becomes obstructive and sewing-machine sewing cannot perform sewing a name cloth etc. by the sewing machine on the side face of a cage, a cage made possible is desired. Then, this invention offers the cage which cancels this un-arranging.

[0004]

[Means for Solving the Problem] The cage of claim 1 has upper opening while forming a side face and a base with gauze etc., it forms an upper opening arris part and a side-face arris part with the central frame bag body of insertion of a central frame, and forms a central frame bag body for insertion and the draw of a central frame possible. A cage can be formed in the condition of not equipping with a central frame, and can be used as a box-like cage by equipping with a central frame later. Therefore, the cage which extracted the central frame is flexible and can carry out sewing-machine sewing of the cloth, such as a name, easily on the side face of a cage. The cage of claim 2 has upper opening while forming a side face and a base with gauze etc., and it attaches an elastic body in an upper opening arris part and the bottom obturator-crest section while it forms an upper opening arris part with the central frame bag body of insertion of a central frame. With this elastic body, a cage can be made box-like and can be folded up. Moreover, even if dust carries a cageful of a cage which is not in a full condition, by the high toughness of this elastic body, it becomes breakage prevention of an elastic body and destruction of a cage can be prevented. When the cage of claim 3 attaches an elastic bag body over an upper opening arris part and

the bottom obturator-crest section, and insertion of the elastic body and a draw form an elastic bag body possible and extract an elastic body, it makes it possible for a side face to be flexible, and for being located in a sewing machine to be able to make a side face easy, and to carry out sewing-machine sewing of the cloth, such as a name. By using an elastic body as a S character flat pattern, the cage of claim 4 can be more smoothly made box-like, and the pile of a cage is possible for it by the high toughness of an elastic body.

[0005]

[Embodiment of the Invention]

(Gestalt of the 1st operation) the perspective view of the basket-like container which can be folded to which drawing 1 (A) is made as for independence opening, and drawing 1 (B) -- some central frame bag bodys -- it is a sectional view. Although a cage is not necessarily required since it forms in the configuration which carries out suture immobilization of the central frame bag body 3 and the flexible gauze 1, and has the upper opening 15 and a base strengthens, through the central frame bag body 3 of insertion of a central frame 2, it carries out suture immobilization and forms flexible gauze 1 in each base arris part 10. That is, a central frame 2 is formed in the central frame bag body 3 in the state of interpolation. Moreover, the central frame bag body 3 is arranged in the top-face opening arris part 11 (four places) in the condition of not inserting a central frame 2, and the cage which has the upper opening 15 in which opening is more smoothly possible is formed in it. In addition, as insertion and a draw are possible about the central frame 2 at said central frame bag body 3 and it is shown in drawing 1 (B), the central frame bag body 3 is manufactured to saccate with synthetic-resin sheets, such as polyethylene, sews an edge by the sewing machine, forms closing section 3a, and sets the other end to clear aperture 3b.

[0006] Moreover, said central frame 2 is the pole made from FRP etc., and the high thing of high deformans of toughness is used for it, and it makes it shorter than said central frame bag body 3. That is, since the bond part (corner) takes making ups and downs possible to a cage in order to combine and form the edge of the central frame bag body 3 by sewing-machine sewing and to make the cage foldable, it makes a central frame 2 shorter than the central frame bag body 3. Moreover, a cage arranges the central frame bag body 3 in the condition of not inserting a central frame 2 in the side-face arris part 12, carries out suture immobilization and forms gauze 1.

[0007] As mentioned above, a cage has the upper opening 15, and the base arris part 10 forms a central frame 2 in the state of insertion, and manufactures the top-face opening arris part 11 and the side-face arris part 12 in the condition of not inserting a central frame 2. And if a central frame 2 is inserted in the top-face opening arris part 11 and the side-face arris part 12, each arris part will be in a set-up condition, and the cage after said process will become independent, and will become box-like. On the other hand, since each corner 8 is flexibly combined even if it is in the condition which inserted said central frame 2, by bending each arris part, this cage becomes flatness-like and its storage is convenient. Moreover, this cage can be made into the shape of flatness also by extracting a central frame 2.

[0008] As mentioned above, since the central frame bag body 3 of anchoring to each arris part can create a cage in the flexible condition of not inserting a central frame 2 since insertion and the draw of a central frame 2 are formed possible, sewing-machine sewing is easy for it. Moreover, while using it as a cage, even if it is a time of breaking a central frame 2, exchange is easy for the new central frame 2.

[0009] (Gestalt of the 2nd operation) The cage of the gestalt of this operation is shown in drawing 2, and it differs in the point manufactured through the elastic bag body 20 to the side-face arris part 12 with the gestalt of the 1st operation. That is, a cage attaches the elastic bag body 20 between the upper opening arris part 11 and the base arris part 10 in the case of the side-face arris part 12, and carries out suture immobilization of the side face with gauze 1. This elastic bag body 20 is manufactured with synthetic-resin sheets, such as polyethylene, forms closing section 20a for an edge by sewing-machine sewing, forms opening 20b for the other end, and enables exchange of an elastic body 25 as closing motion being possible with a fixable fastener through ** 21a and its **** 21b. Moreover, although the thing of various configurations, such as a coil spring, can be used for the elastic body 25 which inserts in said elastic bag body 20, and is extracted and used as it, the direction which uses a S character flat

pattern can set up a side face evenly, and is desirable.

[0010] By attaching in an estrangement location most on the side face in which the top-face opening arris part 11 faces, the top-face opening arris part 11 and the base arris part 10 acquire reaction force, and the set-up of a side face of this elastic bag body 20 is attained. Therefore, this elastic bag body 20 may be not being two places and attaching also in each side face in consideration of the reinforcement of an elastic body 25. In addition, although this elastic body 25 may be directly attached in the top-face opening arris part 11 and the base arris part 10 mountable/unmountable without the elastic bag body 20, in order to do the fine sight of appearance so, the method inserted in the elastic bag body 20 is desirable.

[0011] said cage -- in the central frame bag body 3, gauze 1 is sutured by the base arris part 10 through the central frame bag body 3 in the state of insertion in a central frame 2, and a side face is sutured and manufactured by the top-face opening arris part 11 with gauze 1 through the elastic bag body 20. Therefore, in this manufacture process, although a cage is not box-like, it becomes box-like [of independence opening] by inserting a central frame 2 in the central frame bag body 3, and inserting an elastic body 25 in the elastic bag body 20. Since this cage is not a cage with which the central frame 2 was incorporated unlike the former, if a central frame 2 and an elastic body 25 are taken out, it is [that it is not box-like] flexible, and can newly carry out sewing-machine sewing of the cloth of a publication of a name etc. easily on a side face. Therefore, without sewing cloth, such as a name, on a side face beforehand, the cage is created, and when required, cloth, such as a name, is sewn on a side face and can be shipped to it.

[0012] Moreover, if a central frame 2 and an elastic body 25 are inserted, a side face will serve as box-like [of a set-up] with an elastic body 25, but since the corner 8 is combined flexibly, it can fold up and can be made a plane. That is, even if it is a cage in the condition of having inserted the central frame 2 and the elastic body 25, at the time of use, a side face sets up through the resiliency of an elastic body 25, and it becomes box-like, and without taking out said central frame 2 and elastic body 25, when not using it, it can fold up as it is and can be made a plane.

[0013] Moreover, this cage is accumulated where dust etc. is put in, and it is conveyed by truck etc. At this time, when a lower cage is full, since the weight of the upper cage is supported in that dust, it is satisfactory, but when few, that weight is applied to an elastic body 25. However, since this elastic body 25 has high toughness, it has bent well, and it differs from the former in that do not break through the elastic bag body 3 or an elastic body 25 does not break. That is, the conventional cage can cancel this un-arranging an elastic body 25 and by using the elastic body of a S character flat pattern especially, although there being little ups and downs of a central frame 2, and they breaking, or breaking through the central frame bag body 3 arises since the side-face arris part 12 is formed by the central frame 2, and there is little toughness of the central frame 2.

[0014] In addition, although the fastener 21 of an elastic bag body has the advantage to which an elastic body 25 can be maintained without carrying out opening since a load is applied downward, and an elastic body 25 does not jump out of the elastic bag body 20 when a cage is accumulated since it is attached in base arris part side 10, it may be formed in the top-face opening arris part 11 side. Moreover, although the stitch-like network 1 is stretched in the base and the side face, according to the class of dust, it constitutes from a flexible sheet etc., and is good for fine dust also as management being possible. Moreover, although formed in said upper opening arris part 11 and base arris part 10 through the central frame bag body 3 at four places, when putting in a heavy lift, that what is necessary is just to constitute in consideration of reinforcement according to the various purposes of use, the installation location of the central frame bag body 3 is not limited to the gestalt of operation, but for reinforcement, may be attached in the center section of a side face or the base etc., and, occasionally may be constituted.

[0015]

[Effect of the Invention] Since the cage of claim 1 of this invention has formed the central frame bag body possible, a central frame exchanges insertion and drawing of a central frame, and it makes them easy. Moreover, even if the cage of claim 2 accumulates a cage for dust in the state of receipt by

attaching an elastic body in an upper opening arris part and the bottom obturator-crest section, it is lost that a central frame breaks of it like before. The cage of claim 3 can change a cage into a flexible condition by extracting insertion of an elastic body and drawing, while exchange of an elastic body is possible, since it is what forms an elastic bag body possible. By using an elastic body as a S character flat pattern, the cage of claim 4 can be more smoothly made box-like, and the pile of a cage is possible for it by the high toughness of an elastic body.

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CLAIMS

[Claim(s)]

[Claim 1] Receipt cages, such as dust characterized by having upper opening while forming a side face and a base with gauze etc., being the cage of formation with the central frame bag body of insertion [an upper opening aris part and a side-face aris part] of a central frame, and coming to form insertion and the draw of a central frame said central frame bag body possible.

[Claim 2] Receipt cages, such as dust characterized by attaching an elastic body in an upper opening aris part and the bottom obturator-crest section while it has upper opening while forming a side face and a base with gauze etc., and forming an upper opening aris part with the central frame bag body of insertion of a central frame.

[Claim 3] Receipt cages, such as dust of claim 2 characterized by attaching an elastic bag body over an upper opening aris part and the bottom obturator-crest section, and insertion of the elastic body and a draw forming said elastic bag body possible.

[Claim 4] Receipt cages, such as dust of claim 2 characterized by using an elastic body as a S character flat pattern, or claim 3.

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